

## INTERNATIONAL SEARCH REPORT

Rec'd PCT/PTO 02 MAR 2005

International Application No  
PCT/GB 03/04681A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 F26B5/04

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 F26B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EP0-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 01/37887 A (MARSHALL ROBERT MAYBERRY) 31 May 2001 (2001-05-31) page 8, line 8 -page 9, line 13; figure 1 ---	1,2,4
A	US 5 263 268 A (MEEKS WARREN ET AL) 23 November 1993 (1993-11-23) the whole document ---	1,2,4
A	US 4 468 866 A (KENDALL CLIFFORD) 4 September 1984 (1984-09-04) the whole document ---	1,2,4
A	US 5 137 604 A (MEEKS WARREN ET AL) 11 August 1992 (1992-08-11) cited in the application the whole document ---	1,2,4
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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- \* & \* document member of the same patent family

Date of the actual completion of the international search

3 February 2004

Date of mailing of the international search report

11/02/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Silvis, H

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 289 641 A (BALAMUTA JOHN ET AL) 1 March 1994 (1994-03-01) -----	
A	US 5 217 572 A (GUY JEAN L ET AL) 8 June 1993 (1993-06-08) -----	

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/GB 03/04681

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0137887	A	31-05-2001	AU 1530801 A WO 0137887 A1 GB 2361644 A ,B	04-06-2001 31-05-2001 31-10-2001
US 5263268	A	23-11-1993	NONE	
US 4468866	A	04-09-1984	DE 3276386 D1 EP 0080873 A1	25-06-1987 08-06-1983
US 5137604	A	11-08-1992	DE 4113174 A1 FR 2664367 A1 GB 2246192 A	16-01-1992 10-01-1992 22-01-1992
US 5289641	A	01-03-1994	CA 2149865 A1 EP 0670031 A1 WO 9412839 A1	09-06-1994 06-09-1995 09-06-1994
US 5217572	A	08-06-1993	FR 2644356 A1 CH 682458 A5 DE 4008945 A1 GB 2230203 A ,B IT 1240608 B US 5084133 A	21-09-1990 30-09-1993 27-09-1990 17-10-1990 17-12-1993 28-01-1992